

VYATKIN, Mikhail Porfir'yevich; BUKOVETSKIY, A.N., prof., retsenzent;  
DZHAMGERCHINOV, B.D., akademik, otv. red.; KOVAL'CHUK, V.V.,  
red. izd-va; ANOKHINA, M.G., tekhn. red.

[Monopoly capital in Central Asia] Monopolisticheskii kapital  
v Srednei Azii. Frunzne, Izd-vo Akad. nauk Kirgizskoi SSR,  
1962. 160 p. (MIRA 15:9)

1. Akademiya nauk Kirgizskoy SSR (for Dzhangerchinov).  
(Turkestan--Trusts, Industrial)

ACC NR: AR6028906

SOURCE CODE: UR/0299/66/000/007/B087/B087

AUTHOR: Dzhamgyrchiyeva, T.

TITLE: The action of streptovetin on *Clostridium perfringens* types B, C, and D

SOURCE: Ref. zh. Biologiya, Part I. Abs. 7B599

REF SOURCE: Sb. Infekts. bolezni zhivotnykh i vopr. prirod. oshagovosti. Frunze, Ilim, 1965, 1965, 107-109

TOPIC TAGS: streptovetin, *Clostridium perfringens*, antibiotic effect, medicinal prophylactic action, anaerobic infection, ANTIBIOTIC, INFECTIVE DISEASE

ABSTRACT:

Streptovetin has restrained the growth of *Clostridium perfringens* types B, C, and D, and has shown medicinal-prophylactic action in presence of anaerobic infections in lambs. [WA-50; CBE No. 11]

SUB CODE: 06/ SUBM DATE: none/

Card 1/1

UDC: 615.779.90

YUGOSLAVIA/Chemical Technology. Chemical Products H  
and Their Applications. Food Industry.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21344

Author : Rikovski, Ilija; Dzhamich, Milonir  
Inst : University of Belgrade.  
Title : The Method for Determining the Content of  
Dry Matter in Vegetable Agricultural Pro-  
ducts. I.

Orig Pub : Zb. radova Pol'oprivrednog fak. Un-t Bec-  
gradu, 1956, 4, No 2, 71-92

Abstract : A method was verified for determining the  
content of dry matter in vegetable products:  
vegetable leaves, roots, potatoes, apples.  
A batch of the substance tested (1.2-1.8 g)  
was mixed with substances which facilitate

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11-127

YUGOSLAVIA/Chemical Technology. Chemical Products H  
and Their Applications. Food Industry.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21344

drying [ethanol, methanol, acetone, pyridine, anhydrous Na-sulfate (I)] and dried in an hourglass at 20° in a vacuum-exsiccator over H<sub>2</sub>SO<sub>4</sub>. It was shown that for vegetable leaves (lettuce and spinach), good results are obtained with ethanol, methanol, acetone, I, and pyridine; duration of drying was 24 hours, accuracy of determination plus or minus 0.1 percent. For roots (carrots) good results were obtained with ethanol, methanol, acetone, and I. Duration of drying was 24 hours, accuracy of determination, 0.04-0.12 percent. For potatoes, good results are obtained with ethanol and I, a duration of

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YUGOSLAVIA/Chemical Technology. Chemical Products H  
and Their Applications. Food Industry.

Abs Jour Ref Zhur-Khimiya, No 6, 1959, 21344

drying of 40 hours, and accuracy of determination from 0.14 to 0.12 percent. For apples, good results are obtained with I, a duration of drying of 36-40 hours, and accuracy of determination 0.02-0.2 percent.  
-- From the author's summary.

Card : 3/3

*H-125*

SATPAYEVA, T.A.; NURALIN, N.N.; SHVEDKO, V.K.; FURSOVA, M.Z.  
DZHAMINOV, K.D.

Characteristics of the distribution of ore material in  
some rocks of the Dzhezkazgan series. Vest. AN Kazakh.  
SSR 17 no.9:70-83 S '61. (MIRA 16:8)

DZHAMINOV, K.D.

Clastic dikes in the rocks of the Dzhezkazgan deposit. Izv. AN  
Kazakh.SSR. Ser.geol.nauk no.1:54-63 '63. (MIRA 16:8)

1. Institut geologicheskikh nauk AN KazSSR, Alma-Ata.  
(Dzhezkazgan District—Dikes (Geology))

DZHAMPOLODOVA, V.P.

Immunity to tularemia in man; author's abstract. Zhur. mikrobiol. epid.  
i immu. 29 no.12:106-107 D '58. (MIRA 12:1)

1. Iz kafedry mikrobiologii Rostovskogo-na-Donu meditsinskogo instituta.  
(TULAREMIA) (IMMUNITY)



DZHAMRULIDZE, Ya. E

USSR/Diseases of Farm Animals. Diseases Caused by R-1  
Viruses and Rickettsiae

Abs Jour : Ref Zhur-Biol., No 1, 1958, 2751

Author : Kachakhidze A. V., Dzhamrulidze Ya E., Chelidze  
G. T., Samadashvili D. N.

Inst : Georgian Scientific Research Veterinary Institute  
Title : Dry Anti-Rabies Vaccine for Veterinary Practice

Orig Pub : Tr. Gruz. n-i vet. in-ta, 1955, 11, 267-269

Abstract : No abstract

Card 1/1

DZHAMRULIDZE, Ya. E.

USSR/Diseases in Farm Animals Diseases ~~Caused~~ by Viruses  
and Rickettsiae.

R

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21613.

Author : Dzhamrulidze

Inst : Georgian Scientific Research Institute of Animal  
Husbandry and Veterinary Sciences.

Title : Results of Study and Practical Application of Virus  
Vaccine in Asiatic Fowl Plague in Georgian SSR.

Orig Pub: Byul. nauchno-tekhn. inform. Gruz. n.-1. in-ta  
zhivotnovodstva i vet., 1957, No 1, 34-36.

Abstract: No abstract.

Card : 1/1

USSR/Medicine - Physiology DZHAMUSOVA, T. A.

FD 247

Card 1/1'

Author : Dzhamusova, T. A. and Ponomarenko, V. V.

Title : Relationship between excitability and rhythmic activity during parabiosis of striated musculature

Periodical : Fiziol.zhur. 2, 198-207, Mar/Apr 1954

Abstract : The effect of sodium citrate,  $\text{Na}_2\text{SO}_4$ ,  $\text{HCl}$ ,  $\text{KCl}$ ,  $\text{NaCl}$ , galactose, and glycerine in various concentrations on the electrical excitability and rhythmic activity of the gastrocnemius muscle of frog was investigated. There is a parallelism in the increase of excitability and the appearance of rhythmic activity in solutions of sodium citrate,  $\text{Na}_2\text{SO}_4$ ,  $\text{HCl}$ ,  $\text{KCl}$ , and  $\text{NaCl}$ . Galactose does not change the excitability and does not produce rhythmic activity; glycerine, however, increases the excitability in concentrations from 5 to 10% without producing rhythmic activity. The most prolonged period of rhythmic activity occurs in concentration of 0.15 to 0.2%  $\text{KCl}$ , 1-2%  $\text{Na}_2\text{SO}_4$ , and 0.007 to 0.008-N  $\text{HCl}$ . Two graphs, three charts, and three tables. Nineteen references, 13 Soviet.

Institution : Laboratory of Histophysiology, Physiological Institute imeni A. A. Ukhtomskiy, Leningrad State University; and Laboratory of General and Cellular Physiology, Zoological Institute, Academy of Sciences USSR.

Submitted : February 23, 1953

DZHAMUSOVA, T. A.

2

Peculiarities of paralytic of the somatic muscle of frog caused by the action of iodoacetate. B. P. Ushakov and T. A. Dzhamusova, *Doklady Akad. Nauk S.S.S.R.* 194, 1957, 1004. Monoiodoacetate ion in the concn. range of 0.0004 to 0.63% alters the speed of contractural response of frog somatic muscle according to the previously established law of behavior of narcotic agents, i.e., the rate of development of narcosis depends on concn. of the poison according to a parabolic function. Thus narcosis and contracture are simply different aspects of the same paralytic process. The lowest concn. of iodoacetate does not cause specific contractions but slightly raises the amplitude of contractions which occur in the absence of iodoacetate; this effect reaches max. at 0.0004% concn. Higher concn. of the drug probably act as coagulants on the muscle matter.

G. M. Kozolapoff

Zoologicheskii instiut Akademii nauk SSR.

DZHAMUSOVA, T.A.

Studies on local persistent irritation of the muscle following prolonged exposure to the effect of sodium chloride [with summary in English]. Fiziol.zhur. 44 no.7:664-673 J1 '58 (MIRA 11:7)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN SSSR, Leningrad.

(MUSCLES, effect of drugs on,  
sodium chloride, local stable irritation caused by  
prolonged exposure (Rus))  
(SODIUM CHLORIDE, effects  
musc. stable irritation caused by prolonged exposure  
(Rus))

DZHAMUSOVA, T.A.; PONOMARENKO, V.V.

Contraction waves of the retractor in Priapulus caudatus. Vest.LGU  
14 no.15:127-133 '59. (MIRA 14:4)  
(Geophyrea) (Muscle)

DZHAMUSOVA, T.A.

Heat resistance of the muscular tissue of sea mollusks. TSitologiya  
2 no.3:274-286 My-Je '60. (MIRA 13:7)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii  
AN SSSR.  
(HEAT--PHYSIOLOGICAL EFFECT) (MUSCLE) (MOLLUSK)

DZHAMUSOVA, T.A.; SHAPIRO, Ye.A.

Heat resistance of muscle tissues in different fresh-water mollusks  
species and populations. Zhur. ob. biol. 21 no.6:447-454 N-D '60.

(MIRA 14:1)

1. Laboratorii sravnitel'noy tsitologii i fiziologii kletki Instituta  
tsitologii AN SSSR, Leningrad.

(MOLLUSKS)

(MUSCLE)

(HEAT—PHYSIOLOGICAL EFFECT)



DZHAMUSOVA, T.A.

Functional changes in the muscular tissue in Neptunea eulimata  
Dall (Mollusca) following prolonged thermal treatment. Dokl.AN  
SSSR 145 no.1:189-191 J1 '62. (MIRA 15:7)

1. Institut tsitologii AN SSSR. Predstavleno akademikom V.N.  
Chernigovskim.  
(MOLLUSKS) (TEMPERATURE--PHYSIOLOGICAL EFFECT) (MUSCLE)

DZHAMUSOVA, T. A.

"Heat resistance of muscle tissue of molluscs as a  
cytophysiological species characteristic."

UNESCO - International Symposium on the Role of Cell Reactions in Adaptations  
of Metazoa to Environmental Temperature.

Leningrad, USSR,      31 May - 5 June 1963

DZHAMUSOVA, T. A.

Dissertation defended at the Zoological Institute for the academic degree of Candidate of Biological Sciences: 1962.

"Heat-Resistance of Mollusk Muscle Tissue as a Cytophysiological Character of the Species."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

DZHAMUSOVA, T.A.

Heat resistance of the cells of mollusks as related to the  
problem of species. Sbor. rab. Inst. tsit. no.6:108-133'63.

(MOLLUSKS) (HEAT--PHYSIOLOGICAL EFFECT) (MIRA 16:8)  
(CELLS)

VINOGRADOVA, A.N.; DZHAMUSOVA, T.A.

Study of substantial and functional changes in the retractor  
of a Phascolosoma under prolonged thermal influence. TSitologiya  
5 no.3:279-286 My-e '63. (MIRA 17:5)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii  
AN SSSR, Leningrad.

DZHAMUSOVA, T.A.

Heat contracture and irreversible loss of the muscle  
excitability as related to the thermostability of a  
muscular tissue. Sbor.rab. Inst. tsit. no.8:61-69 '65.

(MIRA 18:12)

1. Laboratoriya sravnitel'noy tsitologii Instituta  
tsitologii AN SSSR, Leningrad.

BEN'KOVSKIY, V.G.; GAFAROVA, N.A.; DZHANAKHMETOVA, Zh.K.; FAKHRUTDINOVA, D.I.;  
FILATOVA, M.A.

Obtaining surface-active agents from petroleum products. Trudy Inst.  
nefti AN Kazakh.SSR 4:179-186 '61. (MIRA 16:4)  
(Petroleum products) (Surface-active agents)

GAFAROVA, N.A.; DZHANAKHMETOVA, Zh.K.; NOGERBEKOV, B.Yu.;  
BEN'KOVSKIY, V.G.

Surface-active substances from the petroleum products of the  
Gur'ev Petroleum Refinery. Khim. i tekhn. topl. i masel 8 no.6:  
30-33 Je '63. (MIRA 16:6)

1. Institut khimii nefti AN KazSSR.  
(Gur'ev(Gur'ev Province)--Petroleum refineries)  
(Surface-active agents)



LITKENS, I.V. (Moskva); GAMAZIN, S.I. (Moskva); DZHANARDAN, N. (Moskva)

Analysis of the static stability of complex electrical systems  
using medium electronic digital computers. Izv. AN SSSR Energ.  
1 transp. 6:701-712 N-D '64. (MIRA 18:3)

USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1956, 77867.

Author : Dzhanashiyev, A.

Inst :

Title : On Periods of Espalier Pruning of Tea Plantations.

Orig Pub: Azerb. sotsyalist kendereserrufaty, 1957, No 2,  
25-31.

Abstract: The practice of tea growing in Georgia and Azerbaydzhan showed that the vegetation and readiness of leaves for collection proceeds unequally in the course of a season, which depends on the irregularity of rainfall. Depending on the rainfall in the Lenkoran-Astarinsk zone of the production in May, more than 50% of the annual leaf

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USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants.

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\* Abs Jour: Ref Zhur-Biol., No 17, 1956, 77637.

collection is taken in, but in July and August only about 4-5%. Irregular gathering of the green leaf causes overwork of the kolkhozes, sovkhoses and factories in May, creates peaks in the reprocessing of the tea leaf which causes a decrease of quality of the annual production of tea. Periods of pruning the espaliers of the tea bush were studied by the Azerbaydzhan Institute of Horticulture and Subtropical crops: 15 March, 1 April, 5 June, 5 July and 5 August, as well as pruning through one year to 15 March. The remainder of the leaf collection plantations without pruning for one year, conducted in the Lenkoran branch of the institute and in production conditions, showed that this

Card : 2/3

USSR/Cultivation Plants. Fruit Trees. Small Fruit Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77837.

method increases the harvest by 20-30%. The collection of leaves begins 7-8 days earlier, more than 60% of the whole May harvest takes place in these days, which levels out the irregularity of taking in the raw tea and assures a higher quality of tea processed. It is recommended to establish rotation pruning of the tea plantations for a year (15 March), which provides a significant saving of labor during collection and assures a higher return per person. -- M. R. Zlotin.

Card : 3/3

DZHANASHIYA, A. A., Doc Agr Sci, "SYSTEM OF ~~PRUNING~~ <sup>tea pruning</sup> THE  
-TREE PLANT UNDER SUBTROPICAL CONDITIONS OF AZERBAYDZHAN."

MOSCOW, 1961. (MOSCOW ORDER OF LENIN Agr Acad IM K. A.  
TIMIRYAZEV). (KL, 3-61, 223).

DZHANASHIYA, A.A.; MAMEDOV, M.A.

Growth of tea sprouts as dependent on the age of the shrubs  
and the cultivation practices used. Dokl. AN Azerb. SSR  
18 no.5:37-40 '62. (MIRA 15:7)

1. Institut sadovodstva, vinogradarstva i subtropicheskikh  
kul'tur AN AzSSR. Predstavleno akademikom AN AzSSR I.D. Mustafayevym.  
(Azerbaijan--Tea)

DZHANASHIYA, Akakiy Alekseyevich

[Problems of the biology and cultivation techniques of tea plants in semihumid subtropics] Voprosy biologii i agro-tehniki chainogo rasteniia v usloviakh poluvlazhnykh subtropikov. Tbilisi, Izd-vo "TSodna," 1964. 163 p.

(MIRA 17:11)

DZHANASHIYA, A.Ye.

From the work practices of a quarantine inspector. Zashch. rast.  
ot vred. i bol. 8 no.5:47-48 My '63. (MIRA 16:9)

1. Inspektor Gudautskogo punkta.  
(Gudauty region—Plant quarantine)



DZHANASHIYA, G.A.

Superposition of two functions from the class of Jevrai's functions. Soob. AN Gruz. SSR 33 no. 2:257-262 F '64. (MIRA 17:9) .

1. Tbilisskiy matematicheskiy institut imeni A.M.Razmadze AN GruzSSR. Predstavleno akademikom N.P.Vekuz.

DZHANASHIYA, G.A.

Convolution equations for a semiaxis with a bounded right-hand part. Soob. AN Gruz. SSR 36 no.1:11-18 O '64.

(MIRA 18:3)

1. Tbilisskiy matematicheskiy institut imeni Razmadze AN GruzSSR.  
Submitted July 4, 1964.

BANTSURI, R. D.; DZHANASHIYA, G. A.

Convolution type equations for a semiaxis. Dokl. AN SSSR 155  
no. 2:251-253 Mr '64. (MIRA 17:5)

1. Matematicheskiy institut im. A. M. Razmadze AN GruzSSSR.  
Predstavleno akademikom N. I. Muskhelishvili.

DZHAMASHIA, G.I., inzh.; CHERNOV, N.V., prof.

Determining the qualitative characteristics of chrome pig  
leather and semi-finished products by the volumetric yield.  
Kozh.-obuv.prom. no.12:13-15 D '59. (MIRA 13:5)  
(Leather)

DZHANASHIYA, G.I., inzh.; CHERNOV, N.V., doktor tekhn.nauk, prof.

Quality characteristics of chrome pigskin and its semifinished products evaluated by the volumetric output. Izv.vys.ucheb.zav.;  
tekh.leg.prom. no.3:89-95 '60. (MIRA 13:8)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.  
Rekomendovana kafedroy tekhnologii kozhi i mekha.  
(Hides and skins)

DZHANASHIA, I.K.

Change the numbering order of signal lights. Avtom., telem. i svyaz'  
4 no.10:35 0 '60. (MIRA 13:10)

1. Starshiy elektromekhanik Tbilisskoy distantzii signalizatsii i  
svyazi Zakavkazskoy dorogi.  
(Railroads—Signaling)

~~DZHANASHIYA, N.M.~~ provizor

Some problems in providing and utilizing mechanical devices for pharmacies. Apt.delo 7 no:6:32-34 N-D '58 (MIRA 11:12)

1. Upravlyayushchiy aptekoy No.2 v Sukhumi. Iz Abkhazskogo otdeleniya glavnogo aptechnogo upravleniya ministerstva zdravookhraneniya GruzSSR.

(DRUGSTORES--EQUIPMENT AND SUPPLIES)

ANTONYUK, B.N.; DENESYUK, I.P.; KUROV, Yu.P.; VAYNGHEYN, I.I.; BERONIKOV, V.A.;  
VEYTSMAN, M.B.; IVANOV, A.A.; IVANOV, A.S.; GAYEVSKIY, B.G.; KOZEL'TSEV,  
I.K.; KOZEL'TSEV, L.I.; KIVALDIN, S.G.; MIROSHIN, A.I.; MEL'KOV, G.Ye.;  
ZUBKOVSKIY, B.P.; IZYUMOV, B.N.; EDEL'SHTEYN, V.I.; KOCHETKOV, V.P.;  
BUBLIKOV, A.V.; DZHANASHIYA, V.A.

Patents. Bum. 1 der. prem. no.1:53-54 Ja-Mr '65.

(MIRA 18:10)



DZHANASHVILI, A.G.

1016. 39 ცეცხლსა და 36 ცეცხლს 1944 წ. ტ. 1, 2, 3-4 ს. 5-6 ც. 7-8 ს. 9-10 ს. 11-12 ს. 13-14 ს. 15-16 ს. 17-18 ს. 19-20 ს. 21-22 ს. 23-24 ს. 25-26 ს. 27-28 ს. 29-30 ს. 31-32 ს. 33-34 ს. 35-36 ს. 37-38 ს. 39-40 ს. 41-42 ს. 43-44 ს. 45-46 ს. 47-48 ს. 49-50 ს. 51-52 ს. 53-54 ს. 55-56 ს. 57-58 ს. 59-60 ს. 61-62 ს. 63-64 ს. 65-66 ს. 67-68 ს. 69-70 ს. 71-72 ს. 73-74 ს. 75-76 ს. 77-78 ს. 79-80 ს. 81-82 ს. 83-84 ს. 85-86 ს. 87-88 ს. 89-90 ს. 91-92 ს. 93-94 ს. 95-96 ს. 97-98 ს. 99-100 ს. 101-102 ს. 103-104 ს. 105-106 ს. 107-108 ს. 109-110 ს. 111-112 ს. 113-114 ს. 115-116 ს. 117-118 ს. 119-120 ს. 121-122 ს. 123-124 ს. 125-126 ს. 127-128 ს. 129-130 ს. 131-132 ს. 133-134 ს. 135-136 ს. 137-138 ს. 139-140 ს. 141-142 ს. 143-144 ს. 145-146 ს. 147-148 ს. 149-150 ს. 151-152 ს. 153-154 ს. 155-156 ს. 157-158 ს. 159-160 ს. 161-162 ს. 163-164 ს. 165-166 ს. 167-168 ს. 169-170 ს. 171-172 ს. 173-174 ს. 175-176 ს. 177-178 ს. 179-180 ს. 181-182 ს. 183-184 ს. 185-186 ს. 187-188 ს. 189-190 ს. 191-192 ს. 193-194 ს. 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SO: U-1934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).



DZHANASHVILI, A. G.

Dzhanashvili, A. G. "Certain investigations of the action of Vipera lebetina," Trudy Tbilis. zooparka, Vol. I, 1948, p. 85-92, (In Georgian, resume in Russian), - Bibliog: 6 items

SO: U-4934, 29 Oct. 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

DZHANASHVILI, A. G.

Dzhanashvili, A. G. and Kobakhidze, D. M. "The problem of utilizing in food the yields of cert in mammals bred in the Georgian SSR," Trudy Tbilis, zooparka, Vol. I, 1948, p. 103-07, (In Georgian, resume in Russian)

SO: U-4934, 29 Oct 57, (Letopis 'Zhurnal 'nykh St-ey, No. 16, 1949).

DZHANASHVILI, A.G.

Materials in studying birds of Shiraki Steppe and Alasan River  
Valley [in Georgian with summary in Russian]. Trudy Tbil. GU  
no.62:295-324 '57. (MIRA 11:8)

1. Tbilisskiy gosudarstvennyy universitet imeni Stalina,  
kafedra zoologii pozvonochnykh.  
(Alasan River--Birds) (Shiraki Steppe--Birds)

DZHANASHVILI, Archil Gavrilovich

[Transformation of the fauna of Georgia] [Preobrazovanie fauny  
Gruzii. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR] 1958. 52 p.  
[In Georgian]. (MIRA 12:1)  
(Georgia--Zoology)

DZHANASHVILI, Archil Gavrilovich; KUTUBIDZE, Levrosiy Yevseyevich;  
ZARKUA, Dimitriy Grigor'yevich; TSERTSVADZE, L., red. izd-va

[A guide to the birds of Georgia] Opređelitel' ptits Gruzii.  
Tbilisi, Izd-vo TGU im. Stalina, 1960. 321 p. [In Georgian]  
(MIRA 14:4)  
(Georgia--Birds)

DZHANASHVILI, Archil Gavrilovich

[Practical exercises in vertebrate zoology] [Praktikum po  
zoologii pozvonochnykh. Tbilisi, Izd-vo TGU] 1963. 253 p.  
[In Georgian] (MIRA 17:4)

DZHANASHVILI, A.G.; KALANDADZE, L.P., prof., red.

[Animal kingdom of Georgia] Zhivotnyi mir Gruzii. Pod  
red. L.P.Kalandadze. Tbilisi, Izd-vo AN Gruz.SSR Vol.3.  
[Vertebrates] Pozvonochnye . 1963. 459 p. [In Georgian]  
(MIRA 17:4)

1. Chlen-korrespondent AN Gruz.SSR (for Kalandadze).

DZHANASHVILI, A.G.

Zoogeographic survey of vertebrates in Georgia. Trudy Geog.  
ob-va Gruz. SSR 6:181-199 '63. (MIRA 17:2)



DZHANASHVILI, A.G.; OKRODZHANASHVILI, A.N.

Study of the cave fauna in the vicinity of Akhali-Afoni. Soob.  
AN Gruz. SSR. 32 no. 1:175-178 0 '63. (MIRA 17:9)

✓ /  
DZHANASHVILI, A.G.; TARTARASHVILI, O.Sh.

Materials for studying the distribution of some chiroptera  
in Zakataly District. Soob. AN Gruz. SSR 33 no.3:667-669  
Mfr '64 (MIRA 17:8)

BOGOYAVLENSKIY, Ye.N.; DZHANASHVILI, B.A.

Precipitation of hydrated manganese oxide from its nitrate.  
Soob. AN Gruz. SSR 39 no.2:321-328 Ag '65. (MIRA 18:9)

1. Institut neorganicheskoy khimii i elektrokhemii AN GruzSSR.  
Submitted February 22, 1965.

DZHANASHIYA, G.A.

Carleman's problem for a class of Gevrey's functions. Dokl. AN  
SSSR 145 no.2:259-262 J1 '62. (MIRA 15:7)

1. Matematicheskiy institut imeni A.M. Razmadze AN Gruzinskoy SSR.  
Predstavleno akademikom A.N. Kolmogorovym.  
(Sequences (Mathematics)) (Functions, Analytic)

EZHANASHIYA, G.A.

Evaluation of an n-multiple integral and its application to the Cauchy problem. Trudy Mat. inst. AN Gruz. SSR 29:191-195 '63.

(MIRA 17:12)

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U.S. DEPARTMENT OF COMMERCE

U.S. MATHEMATICS INSTITUTE  
U.S. MATHEMATICS INSTITUTE

19/01/64

ENCL: 00

SUB CODE: MA

OTHER: 002

32447

16.3500

S/044/61/000/010/011/051  
C111/C222

AUTHOR: Dzhanashiya, G.I.

TITLE: On the uniqueness of the solution of the Cauchy problem  
for an equation of the type of S.L. Sobolev

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 33.  
abstract 10 B 152. ("Tr. Vses. soveshchaniya po  
differentsial'n. uravneniyam, 1958", Yerevan, AN Arm SSR,  
1960, 85-87)

TEXT: For the Cauchy problem

$$\sum_{k=1}^m P_{jk} \left( i \frac{\partial}{\partial x_1}, \dots, i \frac{\partial}{\partial x_n} \right) \frac{\partial U_k(x_1, \dots, x_n, t)}{\partial t} = \quad (1)$$

$$= \sum_{k=1}^m Q_{jk} \left( i \frac{\partial}{\partial x_1}, \dots, i \frac{\partial}{\partial x_n} \right) U_k(x_1, \dots, x_n, t) .$$

$$U_j(x_1, \dots, x_n, 0) = U_j(x_1, \dots, x_n), \quad j = 1, 2, \dots, m \quad (2)$$

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S/044/61/000/010/011/051

C111/C222

On the uniqueness of the solution ...

the author formulates the uniqueness theorems :

Theorem 1 : If the polynomials  $\text{Det} \| P_{jk}(s_1, \dots, s_n) \|$  and  $\text{Det} \| Q_{jk}(s_1, \dots, s_n) \|$  have no common real roots, if  $\text{Det} \| P_{jk}(s_1, \dots, s_n) \| \neq 0$  holds only in a finite number of points and if the solution  $\{ U_j(x_1, \dots, x_n, t) \}$  of the Cauchy problem (1)-(2) for vanishing initial conditions in infinity satisfies the condition

$$|U_j(x_1, \dots, x_n, t)| \leq c(|x_1| + \dots + |x_n|)^r \quad (j = 1, 2, \dots, m)$$

X

then this solution is identically equal to zero, i.e. the solution is unique.

But if the solution in infinity satisfies the estimation

$$|U_j(x, t)| \leq C e^{\varepsilon |x|^B},$$

$0 < B < 1$ ,  $\varepsilon > 0$ , then the solution may only have the form

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On the uniqueness of the solution ...

S/044/61/000/010/011/051  
C111/C222

$$U_j(x, t) = \sum_{r=1}^p e^{-i \xi_r x} \sum a_{jrn}(t) x^n .$$

Theorem 2 : If the polynomial  $\text{Det} \| P_{jk}(s_1, \dots, s_n) \|$  has no real roots and if the solution  $U(x_1, \dots, x_n, t)$  of the problem (1)-(2) for vanishing initial conditions in infinity satisfies the condition

$$|U_j(x_1, \dots, x_n, t)| \leq c_1 e^{c_2(|x_1| + \dots + |x_n|)^{1-\epsilon}}, \quad j = 1, \dots, m$$

for every  $t$  and for  $\epsilon > 0$  then this solution is identically equal to zero.

[Abstracter's note : Complete translation.]

Card 3/3

DZHANASHVILI, I. M., assistant

Measuring sound for determining the depth of penetration of the margin of the crown into the gingival pocket. Trudy KGMI no.2: 221-223 '60. (MIRA 15:7)

1. Iz kafedry ortopedicheskoy stomatologii - zav. kafedroy dotsent M. A. Solomonov.

(DENTAL INSTRUMENTS AND APPARATUS)

DZHANASHVILI, I. M., assistant

Apparatus for preparing occlusal cylinders, wax plates and  
various wax pieces used in the technique of dental prosthesis.  
Trudy KGM I no.2:224-228 '60. (MIRA 15:7)

1. Iz kafedry ortopedicheskoy stomatologii - zav. kafedroy  
dotsent M. A. Solomonov.

(DENTAL INSTRUMENTS AND APPARATUS)

DZHANAYEV, G. G.

DZHANAYEV, G. G. --"Effect of Deep Soil Tilling, Meliorations, and Grade on the Maize Crop Yield." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, North-Ossetian Agricultural Inst, Ordzhonikidze, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

\* For Degree of Candidate in Agricultural Sciences

DZHANAYEV, M.M.

Effectiveness of surface magnetic prospecting in geological mapping of closed areas in central Kazakhstan. Izv. AN Kazakh. SSR. Ser. geol. nauk no. 4: 89-95 '63. (MIRA 16:9)

1. Tsentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr Kazakhskoy SSR, g. Karaganda.

14(6)

SOV/112-59-1-335

"Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 45 (USSR)

AUTHOR: Dzhanyayev, V. P.

TITLE: Fundamental Achievements and Objectives in Building Heating-Supply Systems

PERIODICAL: Tr. Nauchno-tekhn. soveshchaniya po proyektir. i str-vu teplovykh setey. M.-L., Gosenergoizdat, 1956, pp 4-10

ABSTRACT: By 1954, the capacity of district-heating turbine units amounted to about 30% of the aggregate capacity of all steam electric stations of the Ministry of Electric Stations. Heat sales for 1954 from all heat-and-electricity stations were  $115 \times 10^9$  kilocal, and the annual saving of reference fuel, thanks to the district-heating supply, was about 5,000,000 tons. District-heating systems are operating in 162 Soviet cities. However, construction of new heating systems is lagging behind installation of new heating capacities at the stations and behind new housing construction, mainly because of the lack of

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SOV/112-59-1-335

Fundamental Achievements and Objectives in Building Heating-Supply Systems

specialized constructing and erecting organizations for heating systems. Delivery to the customer of all the heat bled from the turbines at existing and under-construction stations would require an increase in the work of construction of heating systems 4-5 times. General layouts for heat supply in large cities and a general 10-year plan for constructing heating systems should be worked out. A considerable increase is needed in production of steel pipes, fittings; unitized structures, heat-insulating covers, automatic-control equipment, etc. Investigations are needed to select rational heat-supply schemes and to study the parallel operation of generating stations on the heat-output side. An evaluation of today's designs of heating pipelines is presented, and it is noted that methods are needed for protecting the pipes from external corrosion in order to prolong their service life. Manuals should be developed for designing heating networks, as well as specifications on construction and acceptance of such networks.

M. L. Z.

Card 2/2



DZHANAYEV, V. P. <sup>P</sup> ~~inchenor.~~

Conference on the problem of improving heat insulation in electric  
power stations and heating systems. Elek. sta. 27 no. 12:56-58 D '56.  
(MLRA 10:1)

(Insulation (Heat))

NIKITINA, Ye.V.; AYDAROVA, R.A.; DZHANAYEVA, V.M.; UBUKEYEVA, A.U.;  
ARBAYEVA, Z.S.; SUDNITSYNA, I.G.; SULTANOVA, R.M.; GORBUNOVA,  
N.V.; TKACHENKO, V.I.; FILATOVA, N.S.; CHERNEVA, O.V.;  
VVEDENSKIY, A.I., nauchn. red.; VYKHODTSEV, I.V., otv. red.

[Flora of the Kirghiz S.S.R.; a guide to the plants of the  
Kirghiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii  
Kirgizskoi SSR. Frunze, Ilim. Vol.11. 1965. 606 p.  
(MIRA 18:11)

GAN, P.A.; DZHANAYEVA, V.M.; KUNCHENKO, A.I.; LYSOVA, N.V.; NIKITINA, Ya.V.; PROTOPOPOV, G.F.; PRUTENSKIY, D.I.; TKACHENKO, V.I.; ANOKHINA, M.G., tekhn.red.

[Trees and shrubs of Kirghizistan] Derev'ia i kustarniki  
Kirgizii. Frunze. No.1. [Gymnosperms] Golosemennye. 1959.  
119 p. (MIRA 13:2)

1. Akademiya nauk Kirgizskoi SSR, Frunze. Institut botaniki.  
Sektor lesa.

(Khirghizistan--Gymnosperms)

NIKITINA, Ye.V.; DZHANAYEVA, V.M., red.; ANOKHINA, M.G., tekhn.red.

[Poisonous, noxious, and inedible plants in pastures of the  
Kirghiz S.S.R.] Iadovitye, vrednye i nepoedaemye rasteniia  
pastbishch Kirgizskoi SSR. Frunze, Akad.nauk Kirgizskoi SSR,  
1959. 55 p. (MIRA 13:7)  
(Kirghizistan--Pastures and meadows) (Weeds)

NIKITINA, Ye.V.; DZHANAYEVA, V.M., otv.red.; SORONBAYEVA, N.V., red.  
izd-vz; ANOKHINA, M.G., tekhn.red.

[Materials on the flora of the northern slope of the Kirghiz  
Ala-Tau] Materialy po flore severnogo sklona khrebtu Kir-  
gizskii Ala-Too. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR,  
1960. 146 p. (MIRA 13:7)  
(Kirghis Range--Botany)

NIKITINSKIY, Yu.I.; DZHANAYEVA, V.M., starshiy nauchnyy sotrudnik, kand. biolog.nauk, otv.red.; SORONBAYEVA, N.V., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Juniper stands of the Naukat Ranger District; basins of the Kirgizata and Chiyli Rivers] Archevniki Naukatskogo lesnichestva; basseiny rek Kirgiz-Ata i Chilli. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1960. 163 p. (MIRA 13:12)  
(Naukatskiy District--Juniper)

DZILANAYEVA, V.M., otv.red.; ANOKHINA, M.G., tekhn.red.

[Papers of the Conference on the Restoration and Development of Spruce Forests in Kirghizistan] Materialy Soveshchaniia po probleme vosstanovleniia i razvitiia elovykh lesov Kirgizii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1960. 196 p.

(MIRA 13:12)

1. Soveshchaniye po probleme vosstanovleniya i razvitiya elovykh lesov Kirgizii, Frzhevalsk, 1959.  
(Kirghizistan--Spruce)

GAB, P.A.; DZUANYEVA, V.M.; KARAF-KORBUT, I.G.; KRIVOSHEYEVA, L.S.;  
KUNCHENKO, A.I.; ORLOVA, N.A.; PROTOPOPOV, G.F.; PRUTENSKIY,  
D.I.; TKACHENKO, V.I.; SOROKBAYEVA, H.V., red. izd-va; POPOVA,  
M.G., tekhn. red.

[Trees and shrubs of Kirghizia] Derev'ia i kustarniki Kirgizii.  
Frunze, Izd-vo AN Kirgizskoi SSR. No.2. [Families: Liliaceae-  
Moraceae] Semeistva lileinye-tutovye. 1961. 211 p.

(MIRA 15:10)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut botaniki.  
Sektor lesa.

(Kirghizistan—Angiosperms)



DZHANAYEVA, Valentina Mikhaylovna; NIKITINSKIY, Yu.I., kand. biol.  
nauk, otv. red.; VOZHEYKO, I.V., red. izd-va; ANOKHINA,  
M.G., tekhn. red.

[Gathering juniper berries and growing juniper seedlings in  
irrigated nurseries of Kirghizistan; temporary recommenda-  
tions] Sbor shishkoiagod i vyrashchivanie seiantssev archi v  
polivnykh pitomnikakh Kirgizii; vremennye rekomendatsii.  
Frunze, Izd-vo Akad. nauk Kirgizskoi SSR, 1962. 20 p.

(MIRA 15:10)

(Kirghizistan—Juniper) (Nursery stock)

DZHANAYEVA, Valentina Mikhaylovna; TKACHENKO, V.I., otv. red.

[Juniper in Kirghizistan; its composition, biology, and growing] Archa v Kirgizii; sostav, biologiya i vyra-shchivanie. Frunze, Ilim, 1965. 97 p. (MIRA 18:12)

DZHANAZYAN, S.S.

Rheological properties of new forms of class A-IV rod equipment.  
Izv. AN Arm. SSR. Ser. tekhn. 18 no.1:49-56 '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut betona i zhelezobetona.

DZHANAZYAN, S.S.

Thermal prestressing of new types of hot-rolled rod reinforcements.  
Izv. AN Arm. SSR. Ser. tekhn. nauk 16 no.4:55-60 '63.  
(MIRA 16:10)

PETROSYAN, V.P.; DZHANBARYANTS, A.V.

Dielectric losses and the dielectric constant of polychloroprene. Izv. AN Arm. SSR. Khim. nauki 16 no.5:421-428 '63. (MIRA 17:1)

1. Yerevanskiy gosudarstvennyy universitet, kafedra stroyeniya veshchestva.

DZHANBERIDZE, G.K.

Anthropology of Abazins. Trudy Inst. eksp. morf. AN Gruz.  
SSR 10:219-236'62. (MIRA 16:6)  
(ABAZINS)

DZHANBERIDZE, N.; KINTSURASHVILI, S.; CHKHIKVISHVILI, Ir., red.;  
KHOSHTARIYA, V., red. izd-va; KHUNDADZE, Z., tekhn. red.

[Soviet Georgia] Sovetskaia Gruzia. Tbilisi, Gos. izd-vo  
"Sabchota Sakartvelo," 1961. 1 v. (MIRA 15:1)  
(Georgia--Views)

DZHANBERIDZE, Modar; LORTKIPANIDZE, M., red.; MAMPORIA, T., tekred.

[Architecture of the Government Building of the Georgian  
S.S.R.] Arkhitektura Doma Pravitel'stva Gruzinskoi SSR.  
Khelovneba, 1957. 102 p. 38 p. of illus. [In Georgian  
with summary in Russian] (MIRA 12:6)  
(Tiflis--Architecture)



DZHANBUSINOV, Ye.A.; DAUTOVA, L.I.; PRESNYAKOV, A.A.

Ordering of copper-palladium alloys in the neighborhood of  
the Cu<sub>3</sub>Pd composition. Trudy Inst. met. i obog. AN Kazakh. SSR  
7:24-29 '63. (MIRA 17:6)

L 19495-03 EWP(q)/EWT(m)/EWP(B)/BDS AFFTC/ASD JD  
 ACCESSION NR: AP3004592 S/0126/63/016/001/0061/0064

AUTHORS: Presnyakov, A. A.; Dautova, L. I.; Dzhanbusinov, Ye. A.

TITLE: Structural forms of solid Cu-Pd solution with the approximate composition Cu<sub>3</sub>Pd

SOURCE: Fizika metallov i metallovedeniye, v. 16, no. 1, 1963, 61-64

TOPIC TAGS: Cu-Pd alloy, structure, Cu<sub>3</sub>Pd

ABSTRACT: Cu alloys with 28.8 at.% of Pd have been studied in order to clarify the details of the ordering process. The cast alloy was subjected to x-ray analysis at temperatures up to 400C. A higher heating was impossible because of the lack of proper equipment. The cast samples were rolled (80% deformation), hardened, and tempered at increasing temperatures (100 to 750C). The lattice parameter increased linearly with the increase in temperature up to 350C, after which it remained constant. This was explained by the phase transition and sustained by the appearance of a new line on the x-ray pattern at 375C. The structure of the new phase (X) could not be detected because of lack of data. The

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L 19495-63

ACCESSION NR: AP3004592

samples (after deformation and hardening at 750C) were in a disordered state. The lattice parameters were correspondingly, 3.697<sub>3</sub> and 3.6856 kX. Tempering at the increased temperatures resulted in the following space lattices: 1) initial condition--cubic face centered lattice; 2) heating to 350C--the same; 3) to 375C--ordered cubic face centered (superlattice); 4) 475-650C--tetragonal face centered lattice; 5) 675-700C--the phase X (structure unknown); 6) 700C and higher--disordered cubic face centered lattice. The authors conclude that the appearance of the superlattice marks the first stage in the solid solution ordering. The final stage leads to the formation of a new crystalline lattice. This is due to the appearance of additional binding forces between atoms in the alloy. The superlattice and the intermediate phases are metastable transition forms. Orig. art. has: 1 table and 3 figures.

ASSOCIATION: Institut metallurgii iobogashcheniya AN KazSSR (Metallurgical Institute, Academy of Sciences, Kazakh SSR)

SUBMITTED: 22May62

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: ML

NO REF SOV: 005

OTHER: 005

Card 2/2

L 16390-67 ENT(m)/ENP(t)/ETI IJP(c) JD  
ACC NR: AT7003050

SOURCE CODE: UR/2817/66/015/000/0028/0031

AUTHOR: Dzhanbusinov, Ye. A.; Aytkhozhin, E. S.; Presnyakov, A. A. 27

ORG: none

TITLE: Certain features of variation in electric resistance of copper-gold alloys approximating the CuAu composition

SOURCE: AN KazSSR. Institut metallurgii i obogashcheniya. Trudy, v. 15, 1966, 28-31

TOPIC TAGS: copper alloy, gold alloy, electric resistance

ABSTRACT: Experimental data on ordering of a CuAu alloy is given. Electrical resistance was measured by the compensation method with the use of a potentiometric device housing a PPTN-1 potentiometer and an X21 galvanometer. Wires made of an alloy of copper and gold having a composition close to CuAu and a diameter of 1 mm underwent investigation. The specimen was annealed at temperatures of 100, 200, 300, 400, 500 and 600°, and electrical resistance determined as a function of the tempering temperature after quenching from 600°. After each heat treatment the electrical resistance was measured with an accuracy up to 0.05%.

The initial stage of ordering of the CuAu alloy associated with the conversion of one structural form (CuAu I) into another (CuAu II), promotes the appearances of two minima on the electrical resistance curve in the region of 275-300 and 300-350°. The emergence of a new structural form associated with the terminal stage of ordering leads to an anomalous variation in electrical resistance in the 450-500° region. The presence of transformations in the 400-500° region confirms literature data. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 008

Curr. 1/2

DZHANDIERI, K.

KOMETIANI, P.A.; DZHANDIERI, K.

Accumulation of acids in the process of alcoholic fermentation. Soobshcheniya  
Akad. Nauk Gruzin. S.S.R. 11, No.4, 223-8 '50. (MLRA 5:12)  
(CA 47 no.21:11647 '53)

Dzhandieri, K. M.

Specific stimulation of growth of organs of chick embryo  
by the action of tissue extracts. (U. D. Tumanishvili,  
K. M. Dzhandieri, and I. K. Svandze. *Izvestiya Akad.  
Nauk S.S.S.R.* 166, 1107-90 1976). Liver and heart  
tissues of immature chicks were made into extracts, and  
the exts. were introduced into the embryo at 1-3 days of  
incubation. After 1-5 days the embryo was examined for the  
growth of the respective organs. The embryos were examined at 1-5  
days. The results with liver extracts were positive, even  
although weak with older specimens. A similar effect was de-  
termined with the 15 day specimens. The stimulating effect of the ext. was obtained by heating the  
ext. to 60-65°C or on keeping several hrs. at 10-18°C or in the  
cold 3-5 days. The effect is thus connected with therm-  
labile protein matter.

USSR / General Biology. Individual Development.  
Regeneration.

B-4

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81037.

Author : Tumanishvili, G. D., Dzhandieri, K. M., Svanidze,  
I. K.

Inst : Not given.

Title : Stimulation of the Regeneration Process by the  
Action of Tissue Extracts.

Orig Pub: Dokl. AN SSSR, 1956, 107, No 1, 182-184.

Abstract: In the wintertime through incisions made on the  
liver (L) of the frogs, Rana ridibunda. In subsequent  
subcutaneous injections (I) of the L extract  
of rabbits and hens, the damage, in the course of  
10 days, was filled in with a newly formed liver  
tissue. With the I of the extract of a hen muscle,  
a plug was formed from a cellular detritus at the  
place of the wound. The introduction of the extract

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USSR / General Biology. Individual Development.  
Regeneration.

B-4

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81037.

Abstract: of L of a frog did not stimulate the regeneration process. The stimulation of regeneration processes in L of guinea pigs and rabbits were obtained by subcutaneous introduction of the L extract of animals of the same species. The inactivated extract, at temperatures of 60-70°, did not influence the regeneration. The acceleration of regeneration of muscular tissue in frogs was obtained by the I of extracts of the hen muscles. An acceleration of less intensity occurred with the muscle extracts of the frog. The authors consider that the tissue extracts stimulate the size and differentiation of the homologous tissue and direct the development of the undifferentiated structures to the side of the donor's tissue.

Card 2/2



The Development of Higher Education in Kazakhstan

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were founded. In 1935, the Republic had already 16 vuzes with 5,000 students; the number of technical schools had increased to 83 with 20,000 students. At the present time 13 pedagogical institutes, 3 medical, 2 zooveterinary, 3 vtuzes, a university, an agricultural and a physical culture institut - 25 higher schools in all - are in operation. The number of students, including correspondence students, is 57,600. During the vuz existence, 54,000 highly qualified specialists have graduated, including 18,000 of Kazakh nationality.

At the Kazakh State University, the Chair for Catalysis and Technical Chemistry is led by Professor D. V. Sokol'skiy. By applying the results of the Chair's work in the catalytic hydrogenation of fat on a copper-nickel catalyzer, the Chimkent Oil and Fat Combine (Chimkentskiy maslozhirovoy kombinat) saved 600,000 rubles annually. The Chair of Analytic Chemistry, supervised by Professor M. T. Kozlovskiy, in cooperation with the Institute of Chemical Sciences (Institut khimicheskikh nauk) Academy of Sciences Kazakh SSR, has developed a new method for extracting rare metals from dust. Through this method, several kilograms of the valuable metal thallium have been obtained. At the Chimkent Lead Factory (Chimkentskiy

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svintsovyy zavod) an industrial plant is being built for such reprocessing of dust.

About 2,000 students study at the 3 faculties of the Mining-Metallurgical Institute. The teaching personnel comprises 13 doctors and 72 candidates of sciences, among them active and associate members of the Kazakh Academy of Sciences: A.S. Popov, I.I. Bok, A.V. Brichkin and N.G. Sergiyev. In their scientific work the scientists are closely connected with the non-ferrous metallurgical and the coal industries of Kazakhstan. The personnel, led by Professor V.D. Ponomarov and Dotsent K.V. Sushkov, has submitted important suggestions on new technological schemes for extracting metals from ore. The institute's geologists - Professors Ye.D. Shlygin, N.G. Sergiyev, I.I. Bok, the Dotsents G.Ts. Medoyev, S.G. Ankinovich and Ye.A. Ankinovich have done great work in studying the geology of Kazakhstan.

Among the instructors of the Veterinary-Zootechnical Institute there are 16 doctors and 65 candidates of sciences including some great scientists, for instance the active member of VASKhNIL, Professor V.A. Bal'mont, active members of the Kazakh Academy of Sciences, N.U. Bazanova, M.I. Goryayev D.A. Zykov, the Professors M.I. Ivanov, N.P. Orlov, T.F.

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Tavildarova, F.M. Mukhamedgaliyev, Ya. I. Kleinbok, I.A.  
Karasev, A.K. Roslyakov and others.

The Kazakh Agricultural Institute (Kazakhskiy sel'sko-khozyaystvennyy institut) had more than 2,700 students during 1956, and about 2,000 students in correspondence courses. This Institute and the Veterinary-Zootechnical Institute have trained more than 7,000 specialists so far.

In 1952, the Semipalatinsk Veterinary-Zootechnical Institute (Semipalatinskiy veterinarno-zootekhnicheskiy institut) was organized.

In 1931, the Medical Institute (Meditsinskiy institut) was opened at Alma-Ata. About 3,570 students study there at the present time. The anti-shock preparation developed by Professor A.P. Polosukhin, in charge of the Chair of Normal Physiology, is being used throughout the Soviet Union.

After the war, 2 new medical institutes were established at Karaganda and Semipalatinsk.

In 1944, the Kazakh Womens' Pedagogical Institute (Kazakhskiy zhenskiy pedagogicheskiy institut) was founded. All 700 students are supported by the government.

About 35 nationalities of the Soviet Union, including Chinese, study at Kazakh State University. Among the 2,800

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instructors, 600 are of Kazakh nationality, including the Professors M. Auyezov, S. Amanzholov, N. Bazanova, A. Bekturov, S. Kenesbayev, N. Sauranbayev, T. Darkanbayev.

The prospects for economic development in Kazakhstan during the 6th Five-Year Plan are immense. Kazakhstan produces at present more than half of the country's non-ferrous metals, but when such gigantic enterprises at the Karaganda Metallurgical Plant (Karagandinskiy metallurgicheskiy zavod), the Bukhtarma GES (Bukhtarminskaya GES), Sokolovka-Sarbay Mining-Concentrating Combine (Sokolovsko-SarbaySKIY gorno-obogatitel'nyy kombinat), the Pavlodar Agricultural Machine (Combine)- and Aluminum Plants begin operation, the importance of the Republic will grow.

The Kazakh SSR occupies second place within the USSR in production of grain, but it has only one agricultural institute.

As specialists are not being trained for all branches of the Republic's economy, it is planned to establish new schools- a Construction-Engineering Institute at Temir-Tau, an Agricultural Institute at Akmolinsk and the 4th Medical Institute at Aktyubinsk.

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